

What is claimed is:

1. An electrophotographic image forming apparatus comprising a waste toner container in which waste toner remaining after a series of printing processes is stored, and an agitator which agitates the waste toner stored in the waste toner container, wherein the agitator comprises:

at least one protrusion protrusively formed on a top surface of a cassette;

an actuator which is pivotably installed on sidewalls of the waste toner container, the actuator having a shaft which is installed inside of the waste toner container and provides at least one agitating wing for agitating the waste toner, and a pivoting part, which is installed outside of the waste toner container, is connected to the shaft, and contacts the at least one protrusion; and

at least one elastic member coupled to the pivoting part and at least one supporting part provided outside of the waste toner container, and which returns the actuator to its original position after the actuator contacts the protrusion and is pivoted away from its original position.

2. The apparatus of claim 1, wherein the at least one protrusion is provided to have a predetermined length perpendicular to a direction in which the cassette enters into the main body.

3. The apparatus of claim 1, wherein the at least one protrusion is provided in a direction in which the cassette enters into the main body at predetermined intervals.

4. The apparatus of claim 1, wherein the shaft and the pivoting part are perpendicular to each other.

5. The apparatus of claim 1, wherein each of the at least one supporting part is protrusively formed on the sidewalls of the waste toner container.

6. The apparatus of claim 1, wherein the at least one agitating wing is placed under an intake of the waste toner container into which the waste toner enters.

5 7. The apparatus of claim 1, wherein the at least one agitating wing is protrusively formed on the circumstance of the shaft.

8. The apparatus of claim 1, wherein the at least one elastic member is
10 coupled to the pivoting part and a respective one of a plurality of the supporting parts.

9. An agitator, for use with an electrophotographic image forming apparatus comprising a waste toner container in which waste toner remains after a
15 series of printing processes is stored, the agitator comprising:

at least one protrusion protrusively formed on a top surface of a cassette;

an actuator, which is pivotably installed on sidewalls of the waste toner container, the actuator having a shaft which is installed inside of the waste toner container and provides at least one agitating wing for agitating the waste toner, and
20 a pivoting part which is installed outside of the waste toner container, is connected to the shaft, and contacts the protrusion; and

at least one elastic member which is coupled to the pivoting part placed along at least one supporting part provided outside of the waste toner container and returns the actuator to its original position after the actuator contacts the protrusion
25 and is pivoted away from its original position.

10. The apparatus of claim 9, wherein the at least one protrusion is provided to have a predetermined length perpendicular to a direction in which the cassette enters into the main body.

30 11. The apparatus of claim 9, wherein the at least one protrusion is provided in a direction in which the cassette enters into the main body at predetermined intervals.

12. The apparatus of claim 9, wherein the shaft and the pivoting part are perpendicular to each other.

5 13. The apparatus of claim 9, wherein each of the at least one supporting part is protrusively formed on the sidewalls of the waste toner container.

10 14. The apparatus of claim 9, wherein the at least one agitating wing is placed under an intake of the waste toner container into which the waste toner enters.

15 15. The apparatus of claim 9, wherein the at least one agitating wing is protrusively formed on the circumstance of the shaft.

16. The apparatus of claim 9, wherein the at least one elastic member is coupled to the pivoting part and a respective one of a plurality of the supporting parts.